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ELECTRONIC

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/709,024	04/07/2004	Yuan-Kun Hsiao	VOSP0006USA	3023
27765 7590 03/12/2007 NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION P.O. BOX 506 MERRIFIELD, VA 22116			EXAMINER	
			EDUN, MOHAMMAD N	
			ART UNIT	PAPER NUMBER
•			2627	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

03/12/2007

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 3 MONTHS from 03/12/2007.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

winstonhsu.uspto@gmail.com Patent.admin.uspto.Rcv@naipo.com mis.ap.uspto@naipo.com.tw

. 3 MONTHS

		Application No.	Application No. Applicant(s)				
Office Action Summary		10/709,024	HSIAO, YU	HSIAO, YUAN-KUN			
		Examiner	Art Unit				
		MUHAMMAD N. ED					
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cover sh	neet with the corresponder	nce address			
WHIC - Exte after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPORDED IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by state reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COM 1.136(a). In no event, however od will apply and will expire SIX cute, cause the application to be	MUNICATION. , may a reply be timely filed (6) MONTHS from the mailing date come ABANDONED (35 U.S.C. § 1	of this communication.			
Status				•			
1)	Responsive to communication(s) filed on <u>01</u>	December 2006.					
		nis action is non-final.					
3)	•	e this application is in condition for allowance except for formal matters, prosecution as to the merits is					
·	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
4)🛛	☑ Claim(s) <u>1-20</u> is/are pending in the application.						
	4a) Of the above claim(s) <u>6,7,11-15 and 17</u> is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
6)🛛	⊠ Claim(s) <u>1-5,8-10,16 and 18-20</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)	Claim(s) are subject to restriction and	l/or election requireme	nt.				
Applicati	ion Papers		•	,			
9)	The specification is objected to by the Exami	ner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
·	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (ınder 35 U.S.C. § 119	•	•				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority docume	ents have been receive	ed.				
	2. Certified copies of the priority documents have been received in Application No						
·	3. Copies of the certified copies of the pr	iority documents have	been received in this Na	itional Stage			
•	application from the International Bure	eau (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list of the certified copies not received.							
•		•					
Attachmen	• •						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)		per No(s)/Mail Date ice of Informal Patent Application	on			
Paper No(s)/Mail Date 6) Other:							

DETAILED ACTION

Election/Restrictions

Applicant's election of the species of Fig. 6 (directed to claims 1-5, 8-10, 16 and 18-20) in the reply filed on 12/01/06 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claims 6, 7, 11-15 and 17 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 12/01/06, as noted above.

Claim Rejections - 35 USC § 112

Claims 1-5, 8-10, 16 and 18-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1-5, and 8-10 are indefinite because in claims 1 and 8 it is not clear as to how or what the bias circuit is connected to. Further, there is no indication in the claims

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that recites how the bias circuit function or operates with respect to the other elements in the device. Clarification is required.

Claims 16 and 18-20 are indefinite because in claim 16 it is not clear at to what the first output signal is connected to or outputted to. Further it is not clear as to how the holding step contributes to method for slicing the spike signal. Clarification is required.

The dependent claims are also rejected because they include language of their respective base claims.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 16, 18 and 20 are rejected under 35 U.S.C. 102(e) as being anticipated by Tanaka (6,956,800).

Tanaka discloses the invention as claimed. Fig. 7 show the device for slicing a signal having: the peak hold circuit (71d), the low-pass filter (71f), the comparator (72)

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electrically connected to the low pass filter, the comparator for comparing the spike signal with the slice level signal to the spike signal; and the bias circuit (taken to be the VCA 71a) for providing a voltage to raise voltage level of the signal inputted into the bias circuit, as set forth in claims 1, 16, 18 and 20. See the description of the apparatus and figures for further details relating to the limitations as set forth in the claims.

Claims 16, 18 and 20 are further rejected under 35 U.S.C. 102(e) as being anticipated by Mashimo et al. (US 2003/0081531).

Mashimo et al. also discloses the invention as claimed. Figs. 6 and 11 show the device for slicing a spike signal having: the peak hold circuit (208); the low-pass filter (inherently included in the band pass filter BPF 211); and comparator (207) for comparing the spike signal with a slice level signal for slicing the spike signal, as set forth in claims 16, 18 and 20. See also, the description of the apparatus and figures for further details relating to the limitations as set forth in the claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Fuji et al. (4,999,824) discloses a slice circuit having a peak hold circuit, a LPF and a comparator.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to MUHAMMAD N. EDUN whose telephone number is 571-272-7617. The examiner can normally be reached on FLEXITIME.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MUHAMMAD N EDUN
Primary Examiner

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